

**WHAT IS CLAIMED IS:**

1. A method of draining a fluid system comprising:  
2 fluidly connecting a drainage wand to a first upper port of a service apparatus;  
3 sealably connecting the service apparatus with a reservoir;  
4 inserting the drainage wand into a service port of a fluid system; and  
5 applying a reduced pressure to a second upper port of the service apparatus to  
6 withdraw fluid from the fluid system into the reservoir.
  
1. The method of claim 1, wherein the reservoir includes an internal volume and  
2 a pressure regulator.
  
1. The method of claim 2, wherein the pressure regulator is a pressure relief  
2 valve a pressure relief valve operable to vent the internal volume when a pressure in  
3 the internal volume decreases below a threshold value.
  
1. The method of claim 1, wherein the service port is an orifice of a radiator of a  
2 cooling system.
  
1. The method of claim 2, wherein the service apparatus comprises:  
2 a body including a first lower port fluidly connected to a first upper  
3 port by a first channel; and  
4 a sealing member on the body configured to sealably connect the  
5 service apparatus with the reservoir.
  
1. The method of claim 5, wherein the first upper port includes a valve.
  
1. The method of claim 5, wherein the service apparatus includes a second lower  
2 port fluidly connected to a second upper port by a second channel and a valve  
3 proximate to the second channel that stops fluid flow in the second channel when  
4 fluid enters the second lower port.
  
1. The method of claim 5, wherein the sealing member comprises a resilient  
2 material.

1        9.      The method of claim 5, wherein the sealing member forms a sealing surface  
2                          perpendicular to the first channel.

1        10.     The method of claim 5, wherein the sealing member is a connector including a  
2                          sleeve made of resilient material surrounding the body, the sleeve forming a seal  
3                          between the service apparatus and the service port.

1        11.     The method of claim 10, wherein the service apparatus further includes a  
2                          sleeve compressor external to the body and in contact with the sleeve.

1        12.     The method of claim 5, wherein the service apparatus further includes a  
2                          pressure-reducing source fluidly connectable to the second upper port.

1        13.     The method of claim 1, wherein reduced pressure is applied with a venturi.

1        14.     The method of claim 3, wherein the pressure relief valve comprises:  
2                          a cylindrical body having an outer wall, an inner wall, and a channel fluidly  
3                          connecting a first port and a second port;  
4                          a poppet within the body biased to close the channel, the poppet opening the  
5                          channel when the pressure in the internal volume decreases below the threshold  
6                          value; and  
7                          a vent control knob threadably attached to the first port and capable of  
8                          engaging and opening the poppet.

1        15.     The method of claim 1, wherein the drainage wand has a sufficient diameter  
2                          and length to enter the service port.

1        16.     A method of draining a fluid system comprising:  
2                          sealably connecting a service apparatus with a reservoir, the service apparatus  
3                          being fluidly connected to the fluid system and the reservoir including an internal  
4                          volume and a pressure regulator; and  
5                          applying a reduced pressure to a second upper port of the service apparatus to  
6                          withdraw fluid from the fluid system into the reservoir.

1        17. The method of claim 16, wherein the pressure regulator is a pressure relief  
2                  valve operable to vent the internal volume when a pressure in the internal volume  
3                  decreases below a threshold value.

1        18. The method of claim 16, wherein the service port is an orifice of a radiator of  
2                  a cooling system.

1        19. The method of claim 16, wherein the service apparatus comprises:  
2                          a body including a first lower port fluidly connected to a first upper  
3                  port by a first channel; and  
4                          a sealing member on the body configured to sealably connect the  
5                  service apparatus with the reservoir.

1        20. A method of draining a fluid system comprising:  
2                          sealably connecting a service apparatus with a reservoir, the service apparatus  
3                  including a drainage wand to a first upper port of the service apparatus, and the  
4                  reservoir including an internal volume and a pressure regulator and a sealing member  
5                  on the body configured to sealably connect the service apparatus with the reservoir,  
6                  the pressure regulator being a pressure relief valve operable to vent the internal  
7                  volume when a pressure in the internal volume decreases below a threshold value;  
8                          inserting the drainage wand into a service port of a fluid system; and  
9                          applying a reduced pressure to a second upper port of the service apparatus to  
10                  withdraw fluid from the fluid system into the reservoir.